



(11) EP 1 471 358 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
07.11.2012 Bulletin 2012/45

(51) Int Cl.:
G01R 1/067 (2006.01) **G01R 1/04** (2006.01)

(43) Date of publication A2:
27.10.2004 Bulletin 2004/44

(21) Application number: 04009154.8

(22) Date of filing: 16.04.2004

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PL PT RO SE SI SK TR**
Designated Extension States:
AL HR LT LV MK

(30) Priority: 25.04.2003 JP 2003121574

(71) Applicant: **Yokowo Co., Ltd**
Tokyo (JP)

(72) Inventors:
• **Yoshida, Takuto**
Tokyo (JP)

- **Sato, Atsushi**
Tokyo (JP)
- **Fukushima, Yasuo**
Tokyo (JP)
- **Noguchi, Masaki**
Tokyo (JP)

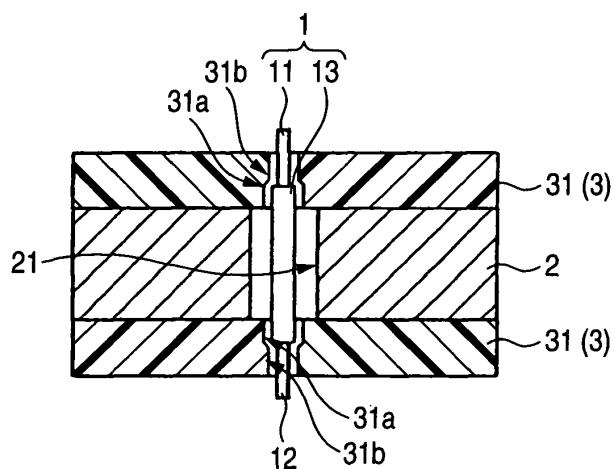
(74) Representative: **Weber, Joachim**
Hoefer & Partner
Patentanwälte
Pilgersheimer Strasse 20
81543 München (DE)

(54) Coaxial probe interface

(57) A conductive block (2) is formed with a first face, a second face and a through hole (21) connecting the first face and the second face. A contact probe (1) is provided with a conductive pipe (13) and a conductive plunger (11,12), retractably provided in at a first end of the pipe (13), the plunger (11,12) being to be brought

into contact with a device to be inspected. A first retainer (3) includes a first insulative member through which the first end of the pipe (13) is retained in the vicinity of the first face of the block (2), such that the pipe (13) is coaxially held within the through hole (21) while forming a gap between an outer periphery of the pipe (13) and an interior wall of the through hole (21).

FIG. 1A





EUROPEAN SEARCH REPORT

Application Number
EP 04 00 9154

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	EP 1 113 274 A1 (NHK SPRING CO LTD [JP]) 4 July 2001 (2001-07-04) * paragraph [0025]; figures 1,2 * -----	1	INV. G01R1/067 G01R1/04
X	DE 86 29 926 U1 (MÜLLER, GERHARD) 2 January 1987 (1987-01-02) * figure 1 *	1	
X	US 6 264 476 B1 (LI CHE-YU [US] ET AL) 24 July 2001 (2001-07-24) * figure 7 *	1	
A	JP 58 219459 A (HITACHI LTD) 20 December 1983 (1983-12-20) * abstract *	1	

			TECHNICAL FIELDS SEARCHED (IPC)
			G01M G01R
The present search report has been drawn up for all claims			
1	Place of search	Date of completion of the search	Examiner
	The Hague	26 September 2012	Vytlačilová, Lenka
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone			
Y : particularly relevant if combined with another document of the same category			
A : technological background			
O : non-written disclosure			
P : intermediate document			
T : theory or principle underlying the invention			
E : earlier patent document, but published on, or after the filing date			
D : document cited in the application			
L : document cited for other reasons			
.....			
& : member of the same patent family, corresponding document			

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 04 00 9154

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-09-2012

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1113274	A1	04-07-2001	CN 1308727 A DE 69923194 D1 DE 69923194 T2 EP 1113274 A1 JP 4880120 B2 TW 438977 B US 6556033 B1 WO 0003250 A1	15-08-2001 17-02-2005 29-12-2005 04-07-2001 22-02-2012 07-06-2001 29-04-2003 20-01-2000
DE 8629926	U1	02-01-1987	NONE	
US 6264476	B1	24-07-2001	CN 1305247 A JP 2001176580 A KR 20010066751 A TW 558859 B US 6264476 B1	25-07-2001 29-06-2001 11-07-2001 21-10-2003 24-07-2001
JP 58219459	A	20-12-1983	NONE	